

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 91-7169

Exam Date: 7/3/2008

1. Current Owner: MARVIN C LAKE
PO BOX 65
SMELTERVILLE ID 83868
(208) 786-3882

And/Or

JANET L LAKE
PO BOX 65
SMELTERVILLE ID 83868
(208) 786-3882

2. Accompanied by: OWNER
Phone No: SAME AS ABOVE
Address: SAME AS ABOVE
Relationship to Permit Holder: SELF

3. SOURCETRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 91-7148
2. Other water rights with the same point of diversion: NONE

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER L5 SE¼SW¼ Sec. 13, Twp 46N, Rge 01W, B.M. BENEWAH County

Method of Determination: GPS

2.

PLACE OF USE: DOMESTIC

Twp Rge Sec	NE				NW				SW				SE				Totals
46N 01W 13	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
												X					
												L 5					

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
46N 01W 13	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
												2.5					2.5
												L 5					

Total Acres: 2.5

PLACE OF USE: FIRE PROTECTION

Tw	Rge	Sec	NE				NW				SW				SE				Totals
46N	01W	13	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
														X					
														L 5					

Method of Determination:

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached

4.

<u>Well or Diversion ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>

2. Measurements:

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

measured method.

PUMP EQUATIONS WATER RIGHT No. 91-7169						
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	0.5	90.95238095	0.8	10	35
Q =	0.039 cfs		17.4 gpm			

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 2.5 \times 3 = 7.5$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.04 \times 214 \times 1.9835 = 17.0$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 7.5$$

2. Volume Calculations for Other Uses:

Domestic $1 \times .6 = .6$

$$\begin{array}{r} 7.5 \\ + .6 \\ \hline 8.1 \text{ AF total} \end{array}$$

G. NARRATIVE/REMARKS/COMMENTS

THIS SYSTEM USES GROUNDWATER DOMESTIC IRRIGATION AND FIRE PROTECTION. THE WELL HAS A WELL TAG ON IT # D0046265. THE DOMESTIC USE IS FOR A RV SITE. THE IRRIGATION IS FOR 2.5 ACRES AROUND THE RV SITE. THE IRRIGATION IS OVERLAPED WITH WATER RIGHT # 91-7148 WHICH IS A SURFACE WATER RIGHT OUT OF THE ST JOE RIVER FOR IRRIGATION ONLY.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	01/01 to 12/31	0.020 CFS	0.60 AF
IRRIGATION	04/01 to 10/31	0.040 CFS	7.50 AF
FIRE PROTECTION	01/01 to 12/31	0.040 CFS	
<u>Totals:</u>		0.040 CFS	8.10 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

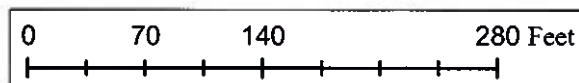
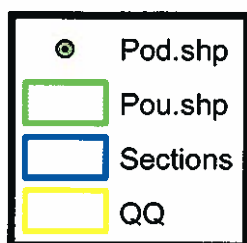
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

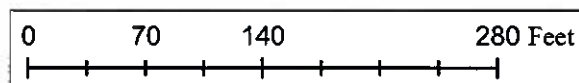
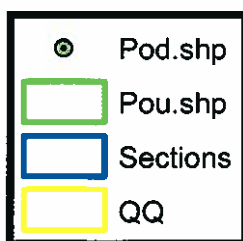
Field Examiner's Name [Signature] Date 7-17-08

Reviewer [Signature] Date 7/18/08

91-7169



91-7169





DOMESTIC SYSTEM



IRRIGATION 1



IRRIGATION 2



IRRIGATION 3



IRRIGATION 4



IRRIGATION STAND PIPE



PLACE OF USE



WELL TAG D0046265

91- 7169



91-7169





91-7169





91-7169





91-7169



IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

91-7169

Office Use Only			
Well ID No.			
Inspected by			
Twp	Rge	Sec	
1/4	1/4	1/4	
Lat:		Long:	

1. WELL TAG NO.

D0046265

DRILLING PERMIT NO.

843161

Water Right or Injection Well No.

2. OWNER:

Name:

Marvin and Janet Lake

Address:

P.O. Box 65

City:

Snokeville

State:

ID

Zip:

83968

3. LOCATION OF WELL by legal description:

Twp.

46N

Rge.

1W

Sec.

13

SE

1/4

SW

1/4

Gov't Lot

County

Benewah

Address of well site:

534 Riverside Drive

City: St. Joe City

4. USE: Domestic

5. TYPE OF WORK:

New Well

6. DRILL METHOD:

Air Rotary

7. SEALING PROCEDURES:

Seal Material	From	To	Wt/Volume	Method	Seal Placement
Bentonite	0	50	125 lbs.	pour	

Was drive shoe used?

yes

Shoe Depth

79

Was drive shoe seal tested?

yes

How?

air

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing or Liner	Welded or Threaded
6"	+8	79	250	Steel	casing	welded

Length of Headpipe

Length of Tailpipe

Packer?

no

9. PERFORATIONS/SCREENS PACKER TYPE:

Perforation Method

none

Screen Type & Method of Installation

From	To	Slot Size	Number	Diam.	Material	Casing or Liner

10. FILTER PACK NONE

Filter Material	From	To	Wt/Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

10

ft. below ground

Artesian pressure

ib.

Depth flow encountered

80

ft

Describe access port or control devices:

cap

12. WELL TESTS:

☐ Pump	☐ Bailer	☒ Air	☐ Flowing Artesian
Yield gal./min	Drawdown	Pumping Level.	Time
50			2 hrs.
Water T			

Water Temp:

47 deg.

Bottom Hole Temp:

Water Quality test comments:

good, clear, no odor

Depth first water encounter

71

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: (Lithology) (water quality, temp)	Water
				Y N
8"	0 ft.	12 ft.	dark brown top soil	
8"	12 ft.	19 ft.	brown clay	
8"	19 ft.	23 ft.	gray clay	
8"	23 ft.	65 ft.	brown clay	
6"	65 ft.	71 ft.	gray clay	
6"	71 ft.	80 ft.	river gravel and sand	X
6"	80 ft.	90 ft.	river gravel	

RECEIVED
JAN 30 2007
IDWR/NOH

Completed Depth

90

(Measurable)

85

Date: Started

10/25/06

Completed

10/26/06

14. DRILLER'S CERTIFICATION

Company Name: ALL-WAYS DRILLING, INC

FIRM #: 510

Principal Driller

Stanley K. Wolfe

Date

11/17/06

Driller or Operator 2

Date

Operator 1

Stanley K. Wolfe

Date

11/17/06

46N 1W 13